

WHAT IS CLAIMED IS:Sub  
A1

1. A video browsing system comprising:

a character screen which displays characters of a video; and

a main screen which displays video segments corresponding

5 to significant events showing a relation between two displayed characters of said character screen according to a user selection, wherein said relation may be constant or variable.

2. A system of claim 1, wherein the main screen displays said video segments by a summary data of said video segments.

3. A system of claim 1, wherein a user selects two characters through the character screen to display the video segments corresponding to significant events showing a relation between the two displayed characters.

4. A system of claim 1, further comprises a character relation-variable event screen which displays connections between variable relations and significant events.

5. A system of claim 4, wherein the character relation-variable event screen displays either one or both the variable relations and events by key frames.

6. A system of claim 1, further comprising:

a relation screen which displays constant relations and

variable relations between a character selected from the character screen and related characters, wherein said constant relations and variable relations are displayed in a tree structure; and

5 a main scene screen which displays significant events corresponding to one of either a constant relation or variable relation selected from the relation screen.

7. A system of claim 6, wherein the constant relation is displayed on a top level of said tree structure and variable relations are displayed on lower levels of said tree structure.

8. A system of claim 6, wherein the main scene screen displays the significant events by key frames.

9. A system of claim 6, further comprising a selection screen wherein the main scene screen displays either one or both main significant events or secondary significant events corresponding to said relation selected from the relation screen, according to a user selection through said selection screen.

10. A system of claim 6, further comprising a selection screen wherein the relation screen displays constant relations and variable relations corresponding a relation type selected by a user through said selection screen.

11. A system of claim 10, wherein a relation type may be one of a family relation, a business relation, or a social relation.

12. A video data structure for a video browsing system comprising:

5 a visualization DS which includes a highlight view DS for display for displaying event data by a highlight and a key frame view DS for displaying event data as key frames, wherein the highlight view DS is organized into multiple levels which enables a display of multi-levels of highlight data and wherein the key frame view DS is organized into multiple levels which enables a display of multi-levels of summarized data;

A1 a syntactic structure DS which includes information for displaying actual video segments of a video; and

15 a semantic structure DS which includes additional information describing a video.

20 13. A video data structure of claim 12, wherein the syntactic structure DS is organized into a segment DS including actual video segment data and a time DS including corresponding temporal positions of each actual video segment data within a video data.

14. A video data structure of claim 13, wherein the semantic structure DS is organized into sub-level structures comprising:  
an event DS which includes event information, wherein said

event DS is organized into sub-level structures of a reference to segment which includes reference information necessary for displaying a video segment of a video corresponding to events selected by a user and an annotation DS which includes information which connects said selected events with actual positions of said selected events within a video data and information explaining said selected events;

an object DS which includes object information; and

an event/relation graph DS which includes information on at least one of constant relations between objects, variable relations between objects, or relations between objects and events, wherein said event/object relation graph DS is organized into an entity relation with sub-level structures of a Reference to Object which connects objects having either a constant relation or variable relation, a Reference to Event which connects events which are significant to a relation between each connected objects, and a relation which includes information on a nature and title of relation between each connected objects.

15. A video browsing system comprising:

a character screen which displays characters of a video; and  
a main screen which displays video segments corresponding to significant events showing a relation between two displayed characters of said character screen according to a user selection, wherein said relation may be constant or variable.

a relation screen which displays constant relations and

variable relations between a character selected from the character screen and related characters, wherein said constant relations and variable relations are displayed in a tree structure; and

5 a main scene screen which displays significant events corresponding to one of either a constant relation or variable relation selected from the relation screen.

16. A system of claim 15, wherein the constant relation is displayed on a top level of said tree structure and variable relations are displayed on lower levels of said tree structure.

17. A system of claim 15, wherein the character screen, the main screen, the relation screen, and the main scene screen are displayed using a video data structure comprising:

10 a visualization DS which includes a highlight view DS for display for displaying event data by a highlight and a key frame view DS for displaying event data as key frames, wherein the highlight view DS is organized into multiple levels which enables a display of multi-levels of highlight data and wherein the key frame view DS is organized into multiple levels which enables a display of multi-levels of summarized data;

15 a syntactic structure DS which includes information for displaying actual video segments of a video; and

20 a semantic structure DS which includes additional information describing a video.

18. A system of claim 15, further comprising a selection screen wherein the main scene screen displays either one or both main significant events or secondary significant events corresponding to said relation selected from the relation screen, according to a user selection through said selection screen.

19. A system of claim 15, further comprising a selection screen wherein the relation screen displays constant relations and variable relations corresponding a relation type selected by a user through said selection screen.

20. A system of claim 19, wherein a relation type may be one of a family relation, a business relation, or a social relation.

Add  
A2